

## WEST Search History

DATE: Monday, May 28, 2007

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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L5	porous diffusion controlling membrane	5
<input type="checkbox"/>	L4	porous diffusion controlling matrix	0
<input type="checkbox"/>	L3	(alginate or carboxymethylcellulose or microcrystalline cellulose or xanthan gum or carboxyvinyl polymer or gelatin) with (ion exchange or ion-exchange)	2408
<input type="checkbox"/>	L2	5882677.pn. or 5942242.pn. or 4661344.pn.	6
<input type="checkbox"/>	L1	20050013792.pn.	2

END OF SEARCH HISTORY

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## Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 5942242 A

L2: Entry 1 of 6

File: USPT

Aug 24, 1999

US-PAT-NO: 5942242

DOCUMENT-IDENTIFIER: US 5942242 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Medicaments for nasal administration

DATE-ISSUED: August 24, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mizushima; Yutaka	Tokyo			JP
Kosaka; Yasuo	Matsudo			JP
Hosokawa; Kayoko	Kumamoto			JP
Nagata; Ryoza	Kumamoto			JP
Higaki; Megumu	Kawasaki			JP
Igarashi; Rie	Kawasaki			JP
Ebata; Tetsuo	Kunitachi			JP

US-CL-CURRENT: 424/434; 424/426, 424/428, 424/430, 424/435, 424/436, 424/464, 424/469, 424/497, 424/499, 424/501, 514/2, 514/772.3, 514/777, 514/778, 514/937

## ABSTRACT:

A medicament for nasal administration to be used for disease prevention or treatment comprising a vaccine or a pharmacologically active peptide compounded with an ion exchange resin or adsorbent resin powder whose mean particle size is not larger than 200 .mu.m.

19 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5882677 A

L2: Entry 2 of 6

File: USPT

Mar 16, 1999

US-PAT-NO: 5882677

DOCUMENT-IDENTIFIER: US 5882677 A

TITLE: Iontophoretic patch with hydrogel reservoir

DATE-ISSUED: March 16, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kupperblatt; Gary B.	Flanders	NJ		

US-CL-CURRENT: [424/449](#); [424/443](#), [424/444](#), [424/447](#), [604/304](#), [604/890.1](#), [604/892.1](#)

## ABSTRACT:

An improved hydrogel reservoir for use in two-compartment iontophoretic patches is described. The hydrogel reservoir contains a water soluble polyelectrolyte and a fluid. The reservoir may also contain a matrix forming material such as polyvinylpyrrolidone. A preferred water-soluble polyelectrolyte is sodium polystyrene sulfonate.

9 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Desc	Image
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☐ 3. Document ID: US 4661344 A

L2: Entry 3 of 6

File: USPT

Apr 28, 1987

US-PAT-NO: [4661344](#)

DOCUMENT-IDENTIFIER: US 4661344 A

TITLE: Antimicrobial cation exchange composition

DATE-ISSUED: April 28, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Relenyi; Attila G.	Midland	MI		

US-CL-CURRENT: [424/78.27](#); [424/78.26](#), [424/78.37](#), [514/528](#), [521/36](#)

## ABSTRACT:

Antimicrobial cation exchange compositions comprising a cation exchange resin having absorbed thereon an antimicrobial chosen from the class consisting of halocyanoacetamide and 2-acylamino-2-halo alkyl acetate antimicrobials. Said compositions are useful as sustained release antimicrobial compositions. In addition, said compositions can be used to simultaneously remove cations and microbes from an aqueous solution.

14 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Desc	Image
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☐ 4. Document ID: DE 69828126 T2, EP 904779 A2, US 5882677 A, JP 11155962 A, CA 2249039 A1, CA 2249039 C, EP 904779 B1, DE 69828126 E

L2: Entry 4 of 6

File: DWPI

Nov 3, 2005

DERWENT-ACC-NO: 1999-192459  
 DERWENT-WEEK: 200572  
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TITLE: Hydrogel reservoir used for transdermal delivery of drugs

INVENTOR: KUPPERBLATT, G B

PRIORITY-DATA: 1997US-0941746 (September 30, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 69828126 T2</u>	November 3, 2005		000	A61K009/70
<u>EP 904779 A2</u>	March 31, 1999	E	011	A61K009/70
<u>US 5882677 A</u>	March 16, 1999		000	A61K009/70
<u>JP 11155962 A</u>	June 15, 1999		032	A61N001/30
<u>CA 2249039 A1</u>	March 30, 1999	E	000	A61N001/30
<u>CA 2249039 C</u>	April 2, 2002	E	000	A61N001/30
<u>EP 904779 B1</u>	December 15, 2004	E	000	A61K009/70
<u>DE 69828126 E</u>	January 20, 2005		000	A61K009/70

INT-CL (IPC): A61K 9/70; A61N 1/30

ABSTRACTED-PUB-NO: EP 904779A

BASIC-ABSTRACT:

NOVELTY - An iontophoretic patch with a hydrogel reservoir, contains an active electrode in the device having two components situated on top of each other and separated by permeable means.

DETAILED DESCRIPTION - A hydrogel reservoir contains an active electrode in a two compartment iontophoretic device, the two compartments being situated on top of each other and separated by a permeable-means. The hydrogel reservoir is situated in one of the two compartments and comprises a water-soluble polyelectrolyte and a fluid.

USE - Used for the transdermal delivery of drugs.

ABSTRACTED-PUB-NO:

JP 11155962A EQUIVALENT-ABSTRACTS:

NOVELTY - An iontophoretic patch with a hydrogel reservoir, contains an active electrode in the device having two components situated on top of each other and separated by permeable means.

DETAILED DESCRIPTION - A hydrogel reservoir contains an active electrode in a two compartment iontophoretic device, the two compartments being situated on top of each other and separated by a permeable-means. The hydrogel reservoir is situated in one of the two compartments and comprises a water-soluble polyelectrolyte and a fluid.

USE - Used for the transdermal delivery of drugs.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMIC	Draw Desc	Clip Img	Ima
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☐ 5. Document ID: DE 19627392 A1, JP 3098401 B2, GB 2303064 A, AU 9659452 A, FR 2736547 A1, JP 09025238 A, CA 2180215 A, KR 97005305 A, ES 2116918 A1, AU 702108 B, ES 2116918 B1, US 5942242 A, GB 2303064 B, IT 1284049 B, CN 1140609 A

DERWENT-ACC-NO: 1997-078706  
DERWENT-WEEK: 200054  
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TITLE: Medicament contg. vaccine or peptide for nasal admin. - as suspension or powder contg. adsorbent and/or ion-exchange resin(s)

INVENTOR: EBATA, T; HIGAKI, M ; HOSOKAWA, K ; IGARASHI, R ; KOSAKA, Y ; MIZUSHIMA, Y ; NAGATA, R

PRIORITY-DATA: 1995JP-0197919 (July 12, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 19627392 A1</u>	January 16, 1997		010	A61K039/02
<u>JP 3098401 B2</u>	October 16, 2000		010	A61K038/00
<u>GB 2303064 A</u>	February 12, 1997		032	A61K009/18
<u>AU 9659452 A</u>	January 23, 1997		000	A61K009/10
<u>FR 2736547 A1</u>	January 17, 1997		023	A61K009/18
<u>JP 09025238 A</u>	January 28, 1997		010	A61K038/00
<u>CA 2180215 A</u>	January 13, 1997		000	A61K047/30
<u>KR 97005305 A</u>	February 19, 1997		000	A61K038/00
<u>ES 2116918 A1</u>	July 16, 1998		000	A61K009/72
<u>AU 702108 B</u>	February 11, 1999		000	A61K009/10
<u>ES 2116918 B1</u>	April 1, 1999		000	A61K009/72
<u>US 5942242 A</u>	August 24, 1999		000	A61F013/00
<u>GB 2303064 B</u>	October 6, 1999		000	A61K009/18
<u>IT 1284049 B</u>	May 8, 1998		000	A61K000/00
<u>CN 1140609 A</u>	January 22, 1997		000	A61K047/30

INT-CL (IPC): A61F 2/00; A61F 13/00; A61K 0/00; A61K 9/10; A61K 9/107; A61K 9/14; A61K 9/18; A61K 9/72; A61K 38/00; A61K 38/22; A61K 38/23; A61K 38/26; A61K 38/28; A61K 38/43; A61K 39/00; A61K 39/02; A61K 39/04; A61K 39/05; A61K 39/08; A61K 39/10; A61K 39/106; A61K 39/12; A61K 39/145; A61K 39/155; A61K 39/165; A61K 39/20; A61K 39/25; A61K 39/29; A61K 47/00; A61K 47/16; A61K 47/26; A61K 47/30; A61K 47/32; A61K 47/42

ABSTRACTED-PUB-NO: DE 19627392A

## BASIC-ABSTRACT:

Suspended or powder-form medicament for admin. through the nose comprises a powdered resin R and an inoculation material or a pharmacologically active peptide. R is one or more ion-exchange and/or adsorbent resin(s).

USE - The medicament contains an immunising agent derived from diphtheria, whooping cough, measles, rubella, influenza, Japanese encephalitis, Weil-Landouzy disease, cholera, mumps, chicken pox, virus hepatitis, tetanus or BCG, or a hormone, protein or enzyme, esp. insulin, calcitonin, elcatonin, salmon calcitonin, buserelin acetate (Gn-RH deriv.), leuprorelin acetate (LH-RH deriv.), somatropin or glucagon (all claimed).

ADVANTAGE - The compsn. brings the active agent to the surface of the mucous membranes of the nose, where the active agent is readily released, for better absorption into the circulation. The resin is inactive, harmless and does not contain harmful impurities. Cationic ion-exchange resins are partic. useful, for acid proteins such as insulin.

ABSTRACTED-PUB-NO:

GB 2303064B EQUIVALENT-ABSTRACTS:

Suspended or powder-form medicament for admin. through the nose comprises a powdered resin R

and an inoculation material or a pharmacologically active peptide. R is one or more ion-exchange and/or adsorbent resin(s).

USE - The medicament contains an immunising agent derived from diphtheria, whooping cough, measles, rubella, influenza, Japanese encephalitis, Weil-Landouzy disease, cholera, mumps, chicken pox, virus hepatitis, tetanus or BCG, or a hormone, protein or enzyme, esp. insulin, calcitonin, elcatonin, salmon calcitonin, buserelin acetate (Gn-RH deriv.), leuporelin acetate (LH-RH deriv.), somatropin or glucagon (all claimed).

ADVANTAGE - The compsn. brings the active agent to the surface of the mucous membranes of the nose, where the active agent is readily released, for better absorption into the circulation. The resin is inactive, harmless and does not contain harmful impurities. Cationic ion-exchange resins are partic. useful, for acid proteins such as insulin.

US 5942242A

Suspended or powder-form medicament for admin. through the nose comprises a powdered resin R and an inoculation material or a pharmacologically active peptide. R is one or more ion-exchange and/or adsorbent resin(s).

USE - The medicament contains an immunising agent derived from diphtheria, whooping cough, measles, rubella, influenza, Japanese encephalitis, Weil-Landouzy disease, cholera, mumps, chicken pox, virus hepatitis, tetanus or BCG, or a hormone, protein or enzyme, esp. insulin, calcitonin, elcatonin, salmon calcitonin, buserelin acetate (Gn-RH deriv.), leuporelin acetate (LH-RH deriv.), somatropin or glucagon (all claimed).

ADVANTAGE - The compsn. brings the active agent to the surface of the mucous membranes of the nose, where the active agent is readily released, for better absorption into the circulation. The resin is inactive, harmless and does not contain harmful impurities. Cationic ion-exchange resins are partic. useful, for acid proteins such as insulin.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWC	Draw Desc	Image
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☐ 6. Document ID: US 4661344 A, EP 281645 A, AU 8769847 A, JP 63238003 A, NO 8700986 A, DK 8701459 A, FI 8701210 A, PT 84534 A, EP 281645 B, DE 3762707 G, ES 2015004 B, CA 1285219 C, IL 81808 A

L2: Entry 6 of 6

File: DWPI

Apr 28, 1987

DERWENT-ACC-NO: 1987-135647

DERWENT-WEEK: 199736

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TITLE: Antimicrobial cation exchange compsn. - contg. a halo:cyano:acetamide, halo:nitro:acetamide or 2-acylamino-2-haloalkyl acetate antimicrobials reversibly absorbed onto resin

INVENTOR: RELENYI, A G

PRIORITY-DATA: 1982US-0383665 (June 1, 1982), 1987EP-0103355 (March 9, 1987)

#### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 4661344 A</u>	April 28, 1987		007	
<u>EP 281645 A</u>	September 14, 1988	E	000	
<u>AU 8769847 A</u>	September 8, 1988		000	
<u>JP 63238003 A</u>	October 4, 1988		000	
<u>NO 8700986 A</u>	October 3, 1988		000	

<u>DK 8701459 A</u>	September 21, 1988	000
<u>FI 8701210 A</u>	September 20, 1988	000
<u>PT 84534 A</u>	March 30, 1989	000
<u>EP 281645 B</u>	May 16, 1990	000
<u>DE 3762707 G</u>	June 21, 1990	000
<u>ES 2015004 B</u>	August 1, 1990	000
<u>CA 1285219 C</u>	June 25, 1991	000
<u>IL 81808 A</u>	July 18, 1991	000

INT-CL (IPC): A01N 25/10; A01N 31/16; A01N 37/34; A61K 31/74; A61L 2/16; B01J 39/04; C02F 1/50; C07C 233/02; C07C 255/19

ABSTRACTED-PUB-NO: EP 281645B

BASIC-ABSTRACT:

Compsn. comprises a strong acid type cation exchange resin and an antimicrobial (I) which is reversibly attached to the resin. (I) is of formula

L-CXY-CO-NR2

where X=halogen; Y=H or halogen; each R=H or 1-10C alkyl; L=CN, alkoxycarbonyl or NO2.

More specifically (I) is 2,2-dibromonitrilo propionamide or 2-acylamino- 2,2-dibromoethyl acetate and the resin is a sulphonated styrene divinylbenzene or a polymer of an alpha, beta-unsatd. carboxylic acid or ester.

USE/ADVANTAGE - The compsns. slowly release (I) upon contact with water or a solvent for (I), providing continuous introduction of (I) into the treated system. In addn. the compsns. retain the ion exchange characteristics. The compsns. can be regenerated and reloaded with (I) simultaneously. The compsns. can be used for treating aqs. cooling and heating systems or in microemulsion flooding processes for secondary oil recovery as a biocidal water softening compsn..

ABSTRACTED-PUB-NO:

US 4661344A EQUIVALENT-ABSTRACTS:

An antimicrobial cation exchange composition comprising a strong acid type cation exchange resin and an antimicrobially effective amt. of an antimicrobial represented by the structure wherein X is halogen, Y is hydrogen or halogen, each R is independently hydrogen or an alkyl group having from 1 to 10 carbon atoms, and L is a cyano, alkoxycarbonyl or nitro group reversibly attached to the cation exchange resin. (11pp)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Full Text	Attachments	Claims	KWIC	Draw Desc	Image
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Term	Documents
"5882677"	2
5882677S	0
"5942242"	2
5942242S	0
"4661344"	3
4661344S	0
((("5882677".PN.) OR ("5942242".PN.)) OR	

("4661344".PN.)) .PGPB,USPT,USOC,EPAB,JPAB,DWPI.	6
(5882677.PN. OR 5942242.PN. OR 4661344.PN.) .PGPB,USPT,USOC,EPAB,JPAB,DWPI.	6

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